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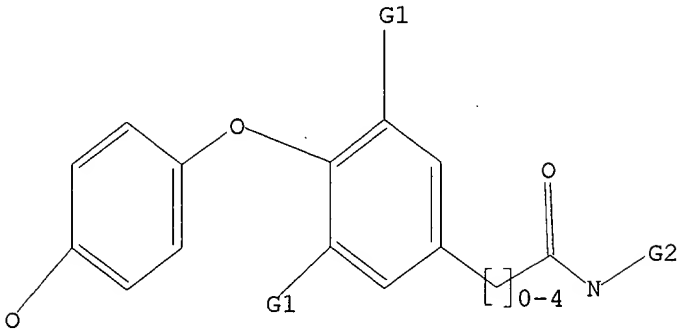
L1 STR



G1 H,X,Ak

G2 H,Cb,Cy,Hy,Ak

Structure attributes must be viewed using STN Express query preparation.

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100.0% PROCESSED 30425 ITERATIONS 1049 ANSWERS
SEARCH TIME: 00.00.02

L2 1049 SEA SSS FUL L1

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Uploading 09868889.str

L3 STRUCTURE UPLOADED

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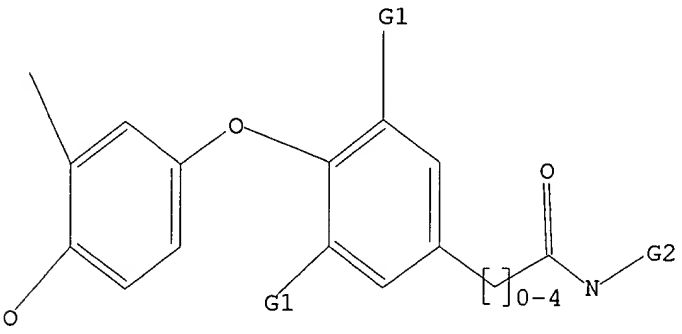
L3 STR



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G2 H,Cb,Cy,Hy,Ak

Structure attributes must be viewed using STN Express query preparation.

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=> s l3 full
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FULL SCREEN SEARCH COMPLETED -  12496 TO ITERATE

100.0% PROCESSED   12496 ITERATIONS                          225 ANSWERS
SEARCH TIME: 00.00.02

L4          225 SEA SSS FUL L3
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=> s l4
L5          22 L4

=> s l5 and thyroid?
         71549 THYROID?
L6            4 L5 AND THYROID?

=> d l6 1-4 ibib abs hitstr

L6   ANSWER 1 OF 4  CAPLUS  COPYRIGHT 2003 ACS
ACCESSION NUMBER:         2002:905927  CAPLUS
DOCUMENT NUMBER:          138:305
TITLE:                    Preventive or recurrence-suppressive agents for liver
                          cancer
INVENTOR(S):              Ohnota, Hideki; Hayashi, Morimichi; Kuroda, Junji;
                          Komatsu, Yoshimitsu; Nishimura, Toshihiro
PATENT ASSIGNEE(S):       Kissei Pharmaceutical Co., Ltd., Japan
SOURCE:                   PCT Int. Appl., 142 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 Japanese
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.        KIND  DATE           APPLICATION NO.   DATE
     ---------------   ----  --------       ---------------   --------
     WO 2002094319      A1   20021128       WO 2002-JP4601    20020513
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
             UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
             TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
             CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
PRIORITY APPLN. INFO.:                    JP 2001-149775   A  20010518
OTHER SOURCE(S):          MARPAT 138:305
GI
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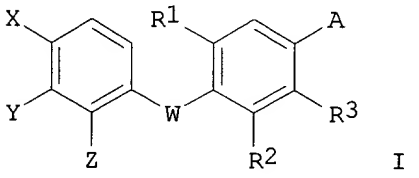


I

AB Preventive or recurrence-suppressive agents for liver cancer contg. as the active ingredient **thyroid** hormone receptor agonists having an effect of inhibiting the expression of liver estrogen sulfotransferase; and usage of the agents. The **thyroid** hormone receptor agonists are preferably compds. represented by the general formula I (R1 and R2 = alkyl, halogeno, or the like; R3 = hydrogen, alkyl, halogeno, or the like; X = hydroxyl or the like; W = O, S, CH2, or the like; Y = alkyl, -Q-T (wherein Q = O, CH2, CH(OH), or the like; and T = optionally substituted aryl or the like), or the like; Z = hydrogen, alkoxy, or the like; and A = -NHCO-Y1-CO2R8, -CH2CH(R9)NR10R11, or the like) or pharmaceutically

acceptable salts thereof.

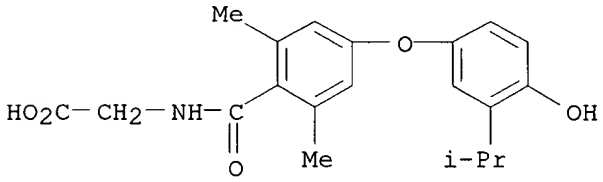
IT **477274-12-7P**

RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preventive or recurrence-suppressive agents for liver cancer contg. **thyroid** hormone receptor agonists)

RN 477274-12-7 CAPLUS

CN Glycine, N-[4-[4-hydroxy-3-(1-methylethyl)phenoxy]-2,6-dimethylbenzoyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:904080 CAPLUS

DOCUMENT NUMBER: 136:19947

TITLE: Benzamide ligands for the **thyroid** receptor

INVENTOR(S): Ryono, Denis E.

PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA

SOURCE: PCT Int. Appl., 38 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

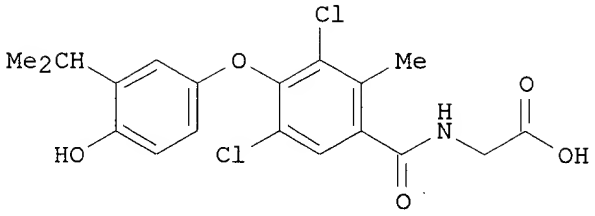
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001094293	A2	20011213	WO 2001-US17742	20010601
WO 2001094293	A3	20020606		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6395784	B1	20020528	US 2001-871347	20010531
EP 1292568	A2	20030319	EP 2001-946036	20010601
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				

PRIORITY APPLN. INFO.: US 2000-210102P P 20000607
WO 2001-US17742 W 20010601

OTHER SOURCE(S): MARPAT 136:19947

GI

ODP



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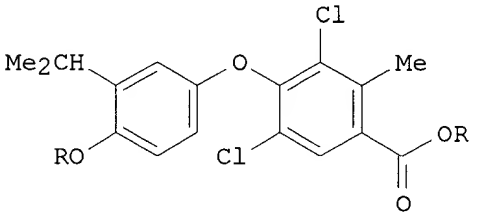

II

AB Benzamides such as I were prepd. for preventing, inhibiting or treating a disease assocd. with metab. dysfunction or which is dependent upon the expression of a T3 regulated gene. Thus, I was prepd. in 5 steps starting from 4'-hydroxy-2'-methylacetophenone and proceeding via II (R = Me, H).

IT **378786-33-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
((aryloxy)benzamide ligands for **thyroid** receptor)

RN 378786-33-5 CAPLUS

CN Glycine, N-[3,5-dichloro-4-[4-hydroxy-3-(1-methylethyl)phenoxy]-2-methylbenzoyl]-, methyl ester (9CI) (CA INDEX NAME)

6 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2000:457018 CAPLUS
DOCUMENT NUMBER: 133:89793
TITLE: Preparation of 4-(4-hydroxyphenoxy)phenylacetyl amino acids and related compounds as novel **thyroid** receptor ligands
INVENTOR(S): Hangeland, Jon; Zhang, Minsheng; Caringal, Yolanda; Ryono, Denis; Li, Yi-lin; Malm, Johan; Liu, Ye; Garg, Neeraj; Litten, Chris; Garcia Collazo, Ana Maria; Koehler, Konrad
PATENT ASSIGNEE(S): Karo Bio AB, Swed.; et al.
SOURCE: PCT Int. Appl., 60 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

same PCT

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000039077	A2	20000706	WO 1999-IB2084	19991223
WO 2000039077	A3	20000921		
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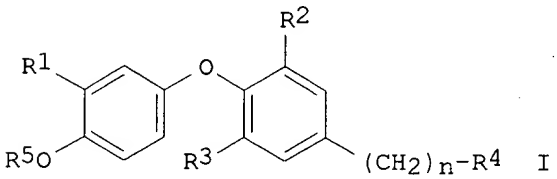
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2356319	AA	20000706	CA 1999-2356319	19991223
BR 9916851	A	20011016	BR 1999-16851	19991223
EP 1144370	A2	20011017	EP 1999-962486	19991223
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002533432	T2	20021008	JP 2000-590990	19991223
NO 2001002931	A	20010821	NO 2001-2931	20010613

PRIORITY APPLN. INFO.: GB 1998-28442 A 19981224
WO 1999-IB2084 W 19991223
OTHER SOURCE(S): MARPAT 133:89793
GI



I

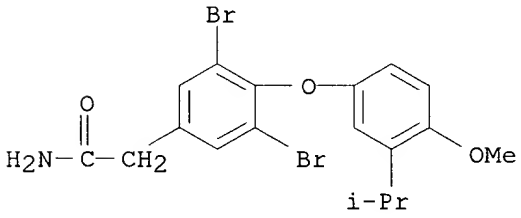
AB Title compds. I [R1 = halo, trifluoromethyl, alkyl, cycloalkyl; R2, R3 = H, halo, alkyl, at least one of R2 and R3 being other than H; n = 0-4; R4 is an (un)substituted heteroarom. moiety linked to (CH2)n via a nitrogen or carbon atom; an amine, including those in which the amine is derived from an alpha amino acid of either L- or D-stereochem., an acylsulfonamide, or a carboxylic acid amide, with the proviso that when n

= 0, then R4 can only be a carboxylic acid amide or an acylsulfonamide; R5 is H or an acyl or other group capable of bioconversion to generate the free phenol structure] were prepd. for use in the treatment of diseases assocd. with metab. dysfunction or which are dependent on the expression of a T3 regulated gene (such as obesity, hypercholesterolemia, atherosclerosis, depression, osteoporosis, hypothyroidism, goiter, **thyroid** cancer, glaucoma, cardiac arrhythmia, and congestive heart failure). Thus, coupling of 3,5-dibromo-4-(4-hydroxy-3-isopropylphenoxy)phenylacetic acid with D-methionine Me ester hydrochloride followed by hydrolysis afforded N-[3,5-dibromo-4-(4-hydroxy-3-isopropylphenoxy)phenylacetyl]-D-methionine.

IT **280779-42-2**
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of (hydroxyphenoxy)phenylacetyl amino acids and related compds. as novel **thyroid** receptor ligands)

RN 280779-42-2 CAPLUS

CN Benzeneacetamide, 3,5-dibromo-4-[4-methoxy-3-(1-methylethyl)phenoxy]- (9CI) (CA INDEX NAME)

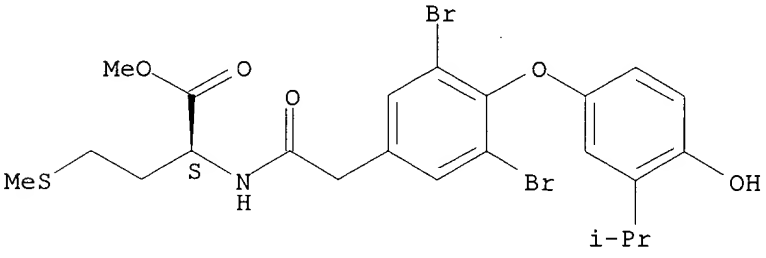


IT **280779-35-3P 280779-36-4P 280779-38-6P**
280779-39-7P 280779-41-1P 280779-45-5P
280779-46-6P 280779-47-7P 280779-49-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of (hydroxyphenoxy)phenylacetyl amino acids and related compds. as novel **thyroid** receptor ligands)

RN 280779-35-3 CAPLUS

CN L-Methionine, N-[[3,5-dibromo-4-[4-hydroxy-3-(1-methylethyl)phenoxy]phenyl]acetyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L6 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2000:117013 CAPLUS
DOCUMENT NUMBER: 132:166010
TITLE: Preparation of 4-phenoxyphenylacetic acids as glucocorticoid and **thyroid** hormone receptor ligands for the treatment of metabolic disorders
INVENTOR(S): Apelqvist, Theresa; Goede, Patrick; Holmgren, Erik
PATENT ASSIGNEE(S): Karo Bio AB, Swed.
SOURCE: PCT Int. Appl., 56 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000007972	A1	20000217	WO 1999-IB1447	19990804
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RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2339194	AA	20000217	CA 1999-2339194	19990804
AU 9951881	A1	20000228	AU 1999-51881	19990804
AU 753376	B2	20021017		
BR 9912742	A	20010502	BR 1999-12742	19990804
EP 1102739	A1	20010530	EP 1999-936913	19990804
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JP 2002522407	T2	20020723	JP 2000-563607	19990804
NO 2001000610	A	20010404	NO 2001-610	20010205
US 6492424	B1	20021210	US 2001-744865	20010409

PRIORITY APPLN. INFO.: GB 1998-16935 A 19980805
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OTHER SOURCE(S): MARPAT 132:166010
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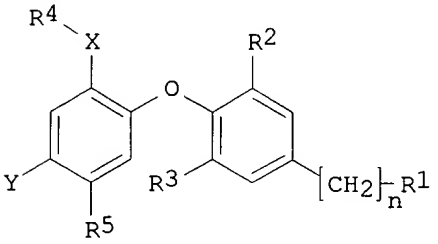

I

AB The title compds. [I; R1 = alkyl, aryl, CO2H, etc.; R2, R3 = H, halo, alkyl, etc. (at least one of R2 and R3 being other than hydrogen); X = CO, CH2; R4 = alkyl, aryl, heteroaryl; R5 = halo, alkyl, cycloalkyl; Y = OH, OMe, NH2, alkylamino; n = 0-4], useful for treating diseases assocd. with

metab. dysfunction or which are dependent on the expression of a glucocorticoid or **thyroid** receptor gene (such as diabetes, hypercholesterolemia, or obesity) (no data), were prepd. E.g., a multi-step synthesis of ester I [R1 = CO2Me; n = 1; R2 = R3 = Br; Y = OMe; R4 = Ph; X = CO; R5 = iso-Pr] was given. Compds. I are effective at 0.5-25 mg/kg/day.

IT **258819-83-9P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of 4-phenoxyphenylacetic acids as glucocorticoid and **thyroid** hormone receptor ligands for the treatment of metabolic disorders)

RN 258819-83-9 CAPLUS

CN Benzeneacetamide, 3,5-dibromo-4-[4-methoxy-2-(3-methylbenzoyl)-5-(1-methylethyl)phenoxy]- (9CI) (CA INDEX NAME)

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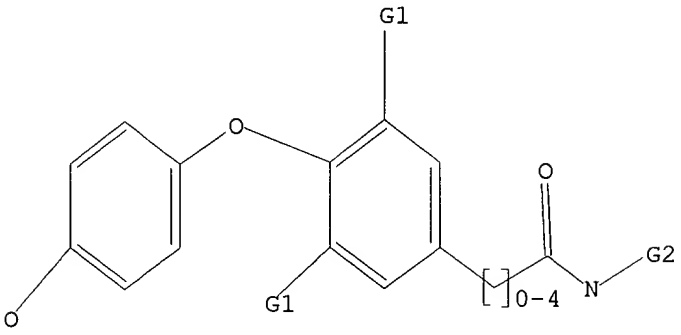
L1 HAS NO ANSWERS
L1 STR



G1 H,X,Ak

G2 H,Cb,Cy,Hy,Ak

Structure attributes must be viewed using STN Express query preparation.

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FULL SCREEN SEARCH COMPLETED - 30425 TO ITERATE

100.0% PROCESSED 30425 ITERATIONS 1049 ANSWERS
SEARCH TIME: 00.00.02

L2 1049 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	148.15	148.36

FILE 'CAPLUS' ENTERED AT 12:39:03 ON 25 APR 2003
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FILE COVERS 1907 - 25 Apr 2003 VOL 138 ISS 18
FILE LAST UPDATED: 24 Apr 2003 (20030424/ED)

This file contains CAS Registry Numbers for easy and accurate

substance identification.

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=> s l2
L3          226 L2

=> s l3 and thyroid?
          71549 THYROID?
L4           37 L3 AND THYROID?
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